

Title (en)

POLYETHER POLYURETHANE POLYMERS, GELS, SOLUTIONS AND USES THEREOF

Title (de)

POLYÄTHER-POLYURETHAN-POLYMERE, GELE, LÖSUNGEN UND DEREN VERWENDUNGEN

Title (fr)

POLYMERES DE POLYETHER POLYURETHANE, GELS, SOLUTIONS ET LEURS UTILISATIONS

Publication

EP 0792304 A4 19980311 (EN)

Application

EP 95939099 A 19951108

Priority

- US 9514542 W 19951108
- US 34060694 A 19941116

Abstract (en)

[origin: WO9615171A1] A new polyurethane is prepared by reacting a diol component and an organic diisocyanate with critical selection of the amount of water in the reaction mixture and the diol component. The diol component is a long chain polyoxyethylene glycol optionally mixed with a low molecular weight polyoxyethylene glycol. A tough gel can be formed by mixing the polyurethane in a diol or triol and water solution. The tough gel can be used in burn and wound dressings, electroconductive pads, high slip materials and surgical implants. An optically clear gel can also be formed. Solutions and emulsions can be formed of the polymer and combined with fillers to form face creams and antiperspirants. A film can cover one side of the gel for burn and wound applications. The gel can be used in squeeze tubes and in spray cans in burn wound care dressings and industrial applications and in bags and containers for use in plastic surgery implants.

IPC 1-7

C08G 18/30; **A61F 2/14**; **A61F 13/15**

IPC 8 full level

A61K 8/87 (2006.01); **A61L 26/00** (2006.01); **A61L 27/18** (2006.01); **A61Q 15/00** (2006.01); **A61Q 19/00** (2006.01); **C08G 18/08** (2006.01); **C08G 18/30** (2006.01); **C08G 18/66** (2006.01); **C08G 18/75** (2006.01)

CPC (source: EP US)

A61K 8/042 (2013.01 - EP US); **A61K 8/87** (2013.01 - EP US); **A61L 26/0019** (2013.01 - EP US); **A61L 27/18** (2013.01 - EP US); **A61Q 19/00** (2013.01 - EP US); **C08G 18/0857** (2013.01 - EP US); **C08G 18/302** (2013.01 - EP US); **C08G 18/6674** (2013.01 - EP US); **C08G 18/75** (2013.01 - EP US); **C08G 18/758** (2013.01 - EP US); **A61Q 15/00** (2013.01 - EP US); **A61Q 17/04** (2013.01 - EP US); **C08G 2210/00** (2013.01 - EP US); **C08G 2220/00** (2013.01 - EP US); **Y10S 424/13** (2013.01 - EP US); **Y10T 428/31551** (2015.04 - EP US)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 9615171A1

Designated contracting state (EPC)

DE GB NL SE

DOCDB simple family (publication)

WO 9615171 A1 19960523; AU 4105496 A 19960606; EP 0792304 A1 19970903; EP 0792304 A4 19980311; US 5563233 A 19961008; US 5728762 A 19980317

DOCDB simple family (application)

US 9514542 W 19951108; AU 4105496 A 19951108; EP 95939099 A 19951108; US 34060694 A 19941116; US 69646796 A 19960814